



# OVERLAND KARMA



**OVERLAND KARMA** is the software platform designed for **centralised control, real time supervision** and **structured data logging** from water systems distributed across the territory.

The platform enables the **collection, normalisation, analysis and visualisation** of data acquired from **RTUs, PLCs, field sensors and** aggregated data **of meters**.

The platform is natively integrated with **AQUAWORKS**, specialised software for water district management.



**OVERLAND KARMA** is supported by the **Pietro Fiorentini** integrated support service and is designed for high performance, safety and scalability.



Technical operational staff/  
leakage search teams



Control Room and  
Operation Manager



Automation /SCADA / ICT  
managers

Functions	Description
Structure and organisation of systems	<b>Multilevel architecture</b> fully configurable, with <b>geographic visualisation</b> of systems and devices installed in the field. Intelligent <b>search and filter</b> functions by area, system or type.
Data collection and normalisation	<b>Acquisition of process data</b> from RTUs, PLCs, field sensors and aggregated meter data, via <b>standard protocols</b> . Data are normalised, logged and made available on interactive dashboards and synoptics.
Customisable synoptics and dashboards	<b>Fully configurable dashboards</b> by system or measuring point, with interactive objects showing <b>hydraulic parameters and consumption</b> . Users can independently create or edit synoptics thanks to a <b>library of dedicated objects</b> .
Advanced RTU diagnostics	<b>Real-time monitoring</b> of operational status, battery level, signal quality and data reliability of each device. Automatic differentiation between <b>remote and battery powered RTUs</b> , with intelligent notifications and option of <b>sending voice alerts</b> or SMS.
Alarm and notification system	<b>HyperAlarm module</b> with configuration of static or dynamic threshold alarms, severity levels and customisable notification channels (e-mail, SMS, Telegram bot, voice calls) to <b>on-call groups</b> , ensuring <b>targeted and timely management of anomalies</b> .
Reporting and advanced data analysis	Generation of <b>customised reports</b> with filters by area, system or period. Dashboards and graphs enable <b>comparisons between systems, RTUs or time intervals</b> , monitoring performance, service levels and operational anomalies.

**Table 1** Functions

## Architecture and distribution

**OVERLAND KARMA** is available both as a cloud service (**SaaS**) and as software installed at the customer's premises (**On Premise**). In both cases, it is accessible via a normal web browser, without the need to install applications on the devices.

The platform is designed to offer high scalability, guarantee service continuity, and ensure **maximum operational reliability**, thanks to its containerised microservices architecture.

Software updates are released in a controlled manner, **with no impact on operations**. Scheduled maintenance is also provided, aimed at maintaining consistently high performance and ensuring the full safety of the installed environment.

## Overland Karma: optional modules



Diana module for advanced pressure monitoring (pressure transients)



RTCP ML module for pressure regulation using Machine Learning algorithm

## Overland Karma: competitive advantages



**Native** integration with **SCADA, GIS, WFM, SAC** via RESTful and MQTT API



**Interoperability** with field devices via standard protocols and open APIs



**Modular and scalable architecture**, expandable without impacting existing configurations



**Access from anywhere** with responsive web interface, also optimised for mobile use.



Maximum operational reliability thanks to **automatic updates** and guaranteed continuity.



**Multi language and multi-time zone** support for management across several territories.



Safety by design, developed according to standards **IEC 62443** and **ISO/IEC 27001**



Dedicated **technical support** and **continuous training**